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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,580	08/25/2003	Richard Harvey	063170.6292	4093
5073	7590	10/02/2009	EXAMINER	
BAKER BOTTS L.L.P.			ZHEN, LI B	
2001 ROSS AVENUE				
SUITE 600				
DALLAS, TX 75201-2980				
			ART UNIT	PAPER NUMBER
			2194	
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			10/02/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/648,580	Applicant(s) HARVEY ET AL.	
	Examiner LI B. ZHEN	Art Unit 2194	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 June 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>6/10/09; 8/12/09</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1 – 12 are pending in the application.

Response to Arguments

2. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1 – 5 and 11 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 1 recites a method for generating keys for objects comprising the steps of storing objects in a directory, providing a defined key if the object has a defined key and providing a second key if the object does not have a defined key. The method defined in claims 1 – 5 and 11 does not pass the machine-or-transformation test. Specifically, the method is not tied to a particular machine or apparatus and it does not transform a particular article to a different state or thing. Storing objects in a directory and providing a defined first key or a second key does not meet the transformation test because the steps do not transform electronic data such that the data has a different function or is suitable for a different use. In addition, the process including storing object in a directory and providing a defined first key or a second key does not specifically or

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inherently tie the process to a particular machine or apparatus. Therefore, the method defined in claims 1 – 5 and 11 are non-statutory under 35 USC 101.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. **Claims 1 – 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Application Publication No. 2003/0023957 to Bau, III et al. [hereinafter Bau, previously cited] in view of “LDAP Schema for UDDI” [hereinafter Bergeson].**

7. As to claim 1, Bau teaches the invention substantially as claimed including a method of generating keys for object(s) in a Web Services [p. 2, paragraph 0024] arrangement, comprising:

determining if the at least one object [conversational instance; p. 4, paragraph 0037 and pp. 7 – 8, paragraph 0074] has a defined first key [client embeds its own instance identifier as part of the conversation ID; p. 6, paragraph 0063];

if the at least one object has a defined first key, providing that defined first key for the at least one object [other unique objects can be used to generate a unique identifier in lieu of the GUID; p. 6, paragraph 0063]; and

if the at least one object does not have a defined first key, providing a second key for the at least one object [client generates a globally unique identifier (GUID); p. 6, paragraph 0063]. Bau does not specifically teach storing at least one object based on at least one of a plurality of Universal Description, Discovery and Integration (UDDI) objects as an entry in a directory, the directory comprising a hierarchical organization of a plurality of entries, each of the plurality of entries having a plurality of attributes and providing a key for the at least one object as a naming attribute for the entry corresponding to the at least one object in the directory, the defined first key uniquely identifying the entry in the directory.

However, Bergeson teaches storing at least one object based on at least one of a plurality of Universal Description, Discovery and Integration (UDDI) objects [p. 16] as an entry in a directory [schema for representing Universal Description Discovery & Integration (referred to here as UDDI) data types in an LDAP directory; p. 1, Abstract; p. 4, Section 4.4.1], the directory comprising a hierarchical organization of a plurality of entries [businessEntity is represented in the directory by attributes, p. 2, Section 4.1.1; businessService is represented in the directory by attributes, p. 3, Section 4.2.1; bindingTemplate is represented in the directory by attributes, p. 3, Section 4.3.1; publisherAssertion is represented in the directory, p. 4, Section 4.5.1; tModel is represented in the directory by attributes, p. 4, Section 4.4.1], each of the plurality of entries having a plurality of attributes [attributes uddiBusinessKey, uddiAuthorizedName, uddiOperator, uddiDiscoverURLs, uddiName, uddiDescription, uddiIdentifierBag, uddiCategoryBag; p. 2, Section 4.1.1; p. 3, Section

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4.2.1; p. 3, Section 4.3.1; p. 4, Section 4.5.1; p. 4, Section 4.4.1] and providing a key for the at least one object as a naming attribute for the entry corresponding to the at least one object in the directory [uddiBusinessKey; p. 5, Section 5.1], the defined first key uniquely identifying the entry in the directory [uddiBusinessKey is the unique identifier for a given instance of an uddiBusinessEntity; p. 5, Section 5.1], and if the at least one object does not have a defined first key, providing a second key for the at least one object as the naming attribute for the entry corresponding to the at least one object in the directory, the second key uniquely identifying the entry in the directory [uddiServiceKey, p. 11, Section 5.17; uddiBindingKey, p. 12, Section 5.18].

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the invention of Bau to incorporate the features of Bergeson. One of ordinary skill in the art would have been motivated to make the combination because storing UDDI data into the directory enables the data to be examined and used outside the environment in which it was originally created [p. 22, Section 9 of Bergeson]. This allows directory entry containing the UDDI data to be read and modified within the constraints imposed by the access control mechanisms of the directory [p. 22, Section 9 of Bergeson].

8. As to claim 2, Bau teaches a UUID (Universally Unique Identified) algorithm is used to provide the second key for the at least one object [globally unique identifier (GUID); p. 6, paragraph 0063].

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9. As to claim 3, Bau teaches each key is unique [p. 5, paragraph 0056].
10. As to claim 4, Bau teaches the second key provided is monotonically increasing [p. 6, paragraph 0063].
11. As to claim 5, Bau as modified teaches each object of the plurality of UDDI object has at least one of a defined key [p. 5, Section 5.1 of Bergeson] and a second key [p. 6, paragraph 0063 of Bau and p. 11, Section 5.17 and p. 12, Section 5.18 of Bergeson].
12. As to claim 11, Bau as modified teaches the plurality of UDDI objects comprises a Business Entity object [p. 2, Section 4.1 of Bergeson], a Business Service Object [p. 2, Section 4.2 of Bergeson], a Binding Template Object [p. 3, Section 4.3 of Bergeson], a Publisher Assertion Object [p. 4, Section 4.5 of Bergeson], and a TModel object [p. 3, Section 4.4 of Bergeson].
13. As to claims 6 – 10 and 12, these are product claims that correspond to method claims 1 – 5 and 11; see the rejections to claims 1 – 5 and 11 above, which also meet these product claims.

CONTACT INFORMATION

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14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to LI B. ZHEN whose telephone number is (571)272-3768.

The examiner can normally be reached on Mon - Fri, 8:30am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung Sub Sough can be reached on 571-272-6799. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Li B. Zhen/

Primary Examiner, Art Unit 2194